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NOTICE OF ALLOWANCE AND FEE(S) DUE

21839 7590 01/21/2009 BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404 EXAMINER

IP, SHIK LUEN PAUL

ART UNIT PAPER NUMBER

2837

DATE MAILED 01/21/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | | | |
|--|-------------|----------------------|---------------------|------------------|--|--|--|--|
| 10/588,300 | 10/02/2006 | Janne Kuivalainen | 1034456-000049 | 9940 | | | | |
| ITLE OF INVENTION: THERMAL OVERLOAD PROTECTION | | | | | | | | |

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 04/21/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat | form should be used for correspondence including d below or directed officers. | or trang the | nsmitting the ISSU Patent, advance on in Block 1, by (a | | | | | | nould be completed where correspondence address as rate "FEE ADDRESS" for | |
|--|---|---|---|--|---|--|--|--|--|--|
| CURRENT CORRESPONDE | NCE ADDRESS (Note: Use Bi | ock 1 for | any change of address) | | Note: Fee(s paper | A certificate of Transmittal. Thirs. Each additional | mailings certil | g can only be used fo icate cannot be used fo , such as an assignment ding or transmission. | r domestic mailings of the or any other accompanying nt or formal drawing, must | |
| | | | NEY PC | | I bar | Cer | tificate | of Mailing or Trans | nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below. | |
| | | | | [| | | | | (Depositor's name) | |
| | | | | | | | | | (Signature) | |
| | | | | | | | | | (Date) | |
| APPLICATION NO. | FILING DATE | | | FIRST NAMED INVENT | ENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. | | | | | |
| 10/588,300 | 10/02/2006 | | | Janne Kuivalainen | | | 1) | 34456-000049 | 9940 | |
| TITLE OF INVENTION: | | | | | | | | | | |
| APPLN, TYPE | SMALL ENTITY | IS | SUE FEE DUE | PUBLICATION FEE D | UE | PREV. PAID ISSUE | SFEE | TOTAL FEE(S) DUE | DATE DUE | |
| nonprovisional | NO | | \$1510 | \$300 | | \$0 | | \$1810 | 04/21/2009 | |
| EXAMI | INER | | ART UNIT | CLASS-SUBCLASS | \Box | | | | | |
| IP, SHIK LU | EN PAUL | | 2837 | 318-471000 | | - | | | | |
| "Fee Address" indi- PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN | ondence address (or Cha v/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident in 37 CFR 3.11. Comp | nge of 'Indiced. Us | Correspondence ation form e of a Customer | | p to native ingle or ag attor I be p r type r type an a | 3 registered paten ely, firm (having as a gent) and the namencys or agents. If a printed. | memb es of u no nan | er a 2p to be is 3 | ocument has been filed for | |
| Please check the appropri | ate assignee category or | catego | ories (will not be pr | inted on the patent): | 0 | Individual 🚨 Co | orporati | on or other private gro | up entity Government | |
| ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) | | | | Payment of Fee(s): (I A check is enclose Payment by credit The Director is heroverpayment, to D | ed. card | l. Form PTO-2038 | is atta | ched. required fee(s), any de | | |
| | SMALL ENTITY state | s. See | 37 CFR 1.27. | ☐ b. Applicant is no | long | er claiming SMAI | LEN | FITY status. Sec 37 CF | R 1.27(g)(2). | |
| NOTE: The Issue Fee and interest as shown by the re | l Publication Fee (if req ecords of the United Sta | ired) tes Pat | will not be accepted ent and Trademark | from anyone other th Office. | an th | e applicant; a regi | stered | attorney or agent; or th | e assignee or other party in | |
| Authorized Signature | | | | | | Date | | | | |
| Typed or printed name | | | | | | Registration N | | | | |
| This collection of informs an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231 | ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but reginia 22313-1450. DC (3-1450. | FR 1.3 U.S.C USPT den, sl NOT | 11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR | on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS | or re s esti- ndivi fficer S TO | tain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and THIS ADDRESS | he pub minuter mment Trader i. SEN | tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner I | by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450, | |

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| 21839 75 | 90 01/21/2009 | EXAMINER | | | |
| BUCHANAN, IN | NGERSOLL & ROO | IP, SHIK LUEN PAUL | | | |
| POST OFFICE BO | | ART UNIT | PAPER NUMBER | | |
| ALEXANDRIA, V | 'A 22313-1404 | 2837 | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 416 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 416 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/588 300 KUIVALAINEN ET AL. Notice of Allowability Examiner Art Unit /PAUL IP/ 2837 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the claims filed on 8/2/2006. The allowed claim(s) is/are 1-20. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 8/2/2006 8. X Examiner's Statement of Reasons for Allowance 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material Other . /PAUL IP/

Primary Examiner, Art Unit 2837

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Application/Control Number: 10/588,300

Art Unit: 2837

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The information disclosure statement filed on 8/2/2006 has been considered by the examiner. Claims 1-20 filed on 8/2/2006 have been considered in view of the specification and the drawings of this application with respect to the references of the record. Claims 1-20 have been considered with the interpretation in view of the specification for the means plus function language. Claims 1-20 include a formula as a means for calculating a time-to-trip function. Since the claims recite a plurality of means plus function for a device for thermal overload protection of an electrical device including means for calculating a time-to-trip in accordance with the formula as a function of the means, the claims have been considered as complied with the statutory subject matter requirement. The references of the record taken alone or in combination fail to teach or suggest the means plus function including the time-to-trip formula function as recited in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to /PAUL IP/ whose telephone number is (571)272-1941.
 The examiner can normally be reached on Monday to Friday from 6:30 am to 3:00 pm. Art Unit: 2837

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Benson can be reached on (571)-272-2227. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PAUL IP/ Primary Examiner Art Unit 2837

1/14/2009